



HP10 Series Home Power Battery(LV)

—————**HP10-Box5**

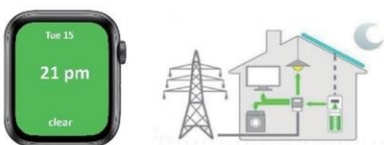
SYSTEM FUNCTION



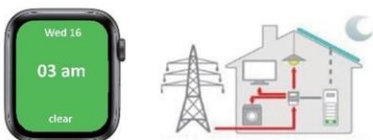
Solar energy preferably used by domestic appliances, and additional Energy is stored in battery.



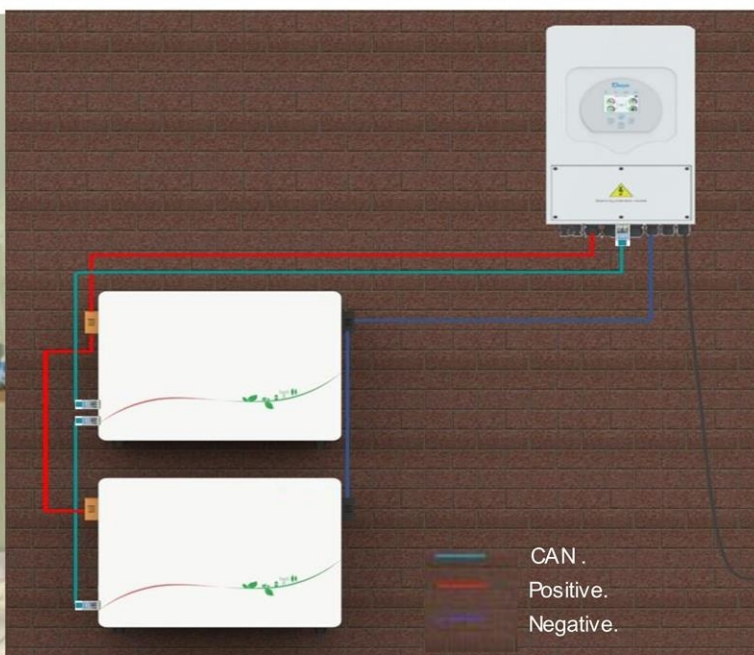
During the day, when battery is fully charged, the additional energy produced by solar can be sold and fed into the public.



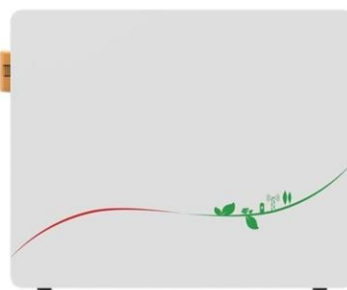
At evening, the energy stored in the battery supplies electricity to the domestic appliances.



At night, when the energy stored in the battery is depleted, the public grid supplies energy to the domestic appliances.



PRODUCT PARAMETER



Model	HP10-Box 5
Nominal Capacity (kWh)	5.12
Depth of Charge	80% (Continuous) 、 100% (Max)
Usable Power (kW)	4.1 (Continuous) 、 5.12 (Max)
Charge Voltage (V)	54.0-56.4
Discharge Voltage (V)	45.0-53.0
Nominal Voltage (V)	51.2
Max Parallel Quantity (Pcs)	16
Charge/Discharge Current(A)	Recommend 50 (0.5C) Max 100A(1C)
Communication Port	CAN/RS485
Weight (Kg)	45.0±2Kg
Dimensions (W*H*D)mm	580*150*470
Operating Temperature	Charge -5℃~+45℃
	Dis charge -20℃~+50℃
Recommend Operating Temperature	Charge +15℃~+35℃
	Dis charge +15℃~+35℃
	Storage -20℃~+35℃
Humidity	5%-95%
Altitude	≤4000m
Warranty	5 Years Product Warranty, 10+ Years design Life (@25℃/77°F)
Certificate	IEC 62619/CE-EMC/UN38.3
Compatible Inverters	Deye、Growatt、Goodwe、Victron、Sofar、SMA、SRNE、LUX、Solis and more brand to be announced

HP10-Box Series

The Battery HP10-Box system is a 48V battery with a flexible and modular design. One battery HP10-Box system contains up to 2~4 battery modules HP10-Box5 in parallel connection and achieves capacities between 5 and 20kWh (usable).

By connecting up to 3 HP10-Box system in parallel, the capacity can be chosen individually in 5 kWh steps from 20 kWh to a maximum of 60 kWh.



	HP10-Box5	HP10-Box10	HP10-Box15	HP10-Box20
	HP10-Box5 (5.12 kWh)			
Battery module	1 module	2 modules	3 modules	4 modules
Usable Energy[1]	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh
Max Output Power	4.1 kW	8.2kW	12.3 kW	16.4 kW
Peak Output Power	5.4 kW, 10 s	10.5 kW, 10 s	15.5 kW, 10 s	20.0 kW, 10 s
Round-Trip Efficiency	≥95.0 % [1]			
Nominal Voltage	51.2 V			
Operating Voltage Range	45.0~56.4 V			
Communication	CAN / RS485			
Dimensions (W/H/D)	646 x 150 x 490 mm	646 x 300 x 490 mm	646 x 450 x 490 mm	646 x 600 x 490 mm
Weight	50 kg	100 kg	145 kg	190 kg
Enclosure Protection Rating	IP21			
Warranty	5 years			
Operating temperature [2]	-5 °C to +50 °C			
Certification & Safety Standard	UN 38.3 / IEC62619 / CE			
Scalability	Max 3 systems in parallel / 60 kWh			
Compatible Inverters	Deye, Growatt, Goodwe, Victron, Sofar, SMA, SRNE, LUX, Solis			

[1] Test conditions: 100% DOD, 0.2C charge & discharge at + 25 °C

[2] -5 °C to 10 °C will be derating